

**WHAT IS CLAIMED IS:**

1. A detergent and conditioning composition, comprising, in a cosmetically acceptable medium,
  - at least one anionic surfactant,
  - at least one other surfactant chosen from amphoteric, cationic and nonionic surfactants, and
  - at least one polysaccharide chosen from starch hydrolyzates with a dextrose equivalent (DE) of less than 20 and from nonionic and anionic fructans,wherein the weight ratio of the at least one anionic surfactant to the at least one other surfactant is greater than or equal to 1:1.
2. The composition according to Claim 1, wherein the at least one anionic surfactant is present in an amount ranging from 2% to 50% by weight, relative to the total weight of the composition.
3. The composition according to Claim 2, wherein the at least one anionic surfactant is present an amount ranging from 3% to 30% by weight, relative to the total weight of the composition.
4. The composition according to Claim 3, wherein the at least one anionic surfactant is present in an amount ranging from 3% to 20% by weight, relative to the total weight of the composition.
5. The composition according to Claim 1, wherein the at least one other surfactant chosen from amphoteric, nonionic and cationic surfactants is present in an amount ranging from 1% to 50% by weight, relative to the total weight of the composition.

6. The composition according to Claim 5, wherein the at least one other surfactant chosen from amphoteric, nonionic and cationic surfactants is present in an amount ranging from 1% to 20% by weight, relative to the total weight of the composition.

7. The composition according to Claim 6, wherein the at least one other surfactant chosen from amphoteric, nonionic and cationic surfactants is present in an amount ranging from 1% to 10% by weight, relative to the total weight of the composition.

8. The composition according to Claim 1, wherein the weight ratio of the at least one anionic surfactant to the at least one other surfactant ranges from 1:1 to 30:1.

9. The composition according to Claim 8, wherein the weight ratio of the at least one anionic surfactant to the at least one other surfactant ranges from 2:1 to 20:1.

10. The composition according to Claim 9, wherein the weight ratio of the at least one anionic surfactant to the at least one other surfactant ranges from 3:1 to 10:1.

11. The composition according to Claim 1, wherein the at least one anionic surfactant is chosen from sodium, triethanolamine and ammonium (C<sub>12</sub>-C<sub>14</sub>)alkyl sulfates; sodium, triethanolamine and ammonium (C<sub>12</sub>-C<sub>14</sub>)alkyl ether sulfates oxyethylenated with 2.2 mol of ethylene oxide; sodium, triethanolamine, and ammonium (C<sub>12</sub>-C<sub>14</sub>)alkylamido sulfates; sodium cocoyl isethionate; and sodium (C<sub>14</sub>-C<sub>16</sub>)- $\alpha$ -olefin sulfonates.

12. The composition according to Claim 1, wherein the amphoteric surfactants are chosen from aliphatic secondary and tertiary amine derivatives, wherein the aliphatic radical is chosen from linear and branched chains comprising from 8 to 22 carbon atoms and comprising at least one water-soluble anionic group; (C<sub>8</sub>-C<sub>20</sub>)alkylbetaines; sulfobetaines; (C<sub>8</sub>-C<sub>20</sub>)alkylamido(C<sub>1</sub>-C<sub>6</sub>)alkylbetaines; and (C<sub>8</sub>-C<sub>20</sub>)alkylamido-(C<sub>1</sub>-C<sub>6</sub>)alkylsulfobetaines.

13. The composition according to Claim 1, wherein the at least one polysaccharide is soluble in the composition.

14. The composition according to Claim 1, wherein the at least one polysaccharide is water-soluble.

15. The composition according to Claim 1, wherein the starch hydrolyzates have a DE ranging from 1 to 18.

16. The composition according to Claim 15, wherein the starch hydrolyzates have a DE ranging from 1 to 16.

17. The composition according to Claim 16, wherein the starch hydrolyzates have a DE ranging from 2 to 16.

18. The composition according to Claim 1, wherein the at least one polysaccharide is an inulin.

19. The composition according to Claim 18, wherein the inulin is nonionic.

20. The composition according to Claim 1, wherein the at least one polysaccharide is present in an amount ranging from 0.01% to 5% by weight, relative to the total weight of the composition.

21. The composition according to Claim 20, wherein the at least one polysaccharide is present in an amount ranging from 0.1% to 5% by weight, relative to the total weight of the composition.

22. The composition according to Claim 21, wherein the at least one polysaccharide is present in an amount ranging from 0.2% to 3% by weight, relative to the total weight of the composition.

23. The composition according to Claim 1, further comprising at least one conditioner.

24. The composition according to Claim 1, wherein the at least one conditioner is chosen from fluoro oils, fluoro waxes, fluoro gums, carboxylic acid esters, silicones, synthetic oils, cationic polymers, mineral, plant and animal oils, plant waxes, ceramides and pseudoceramides.

25. The composition according to Claim 24, wherein the at least one conditioner is chosen from cationic polymers and silicones.

26. The composition according to Claim 24, wherein the silicones are chosen from at least one of polyalkylsiloxanes, polyarylsiloxanes, polyalkylarylsiloxanes, silicone gums and resins, and polyorganosiloxanes modified with at least one organofunctional group.

27. The composition according to Claim 26, wherein:

(a) the polyalkylsiloxanes are chosen from:

- polydimethylsiloxanes comprising trimethylsilyl end groups;
- polydimethylsiloxanes comprising dimethylsilanol end groups; and
- poly(C<sub>1</sub>-C<sub>20</sub>)alkylsiloxanes;

(b) the polyalkylarylsiloxanes are chosen from:

- linear and branched polydimethylmethylphenylsiloxanes and polydimethyldiphenylsiloxanes with a viscosity ranging from  $1 \times 10^{-5}$  to  $5 \times 10^{-2}$  m<sup>2</sup>/s at 25°C;

(c) the silicone gums are chosen from polydiorganosiloxanes with number-average molecular masses ranging from 200 000 to 1 000 000, which are used alone or in the form of a mixture in a solvent; and

(d) the organopolysiloxane resins are chosen from resins comprising units: R<sub>3</sub> Si O<sub>1/2</sub>, R<sub>2</sub> Si O<sub>2/2</sub>, R Si O<sub>3/2</sub>, Si O<sub>4/2</sub> wherein R is chosen from hydrocarbon-based groups comprising from 1 to 16 carbon atoms or a phenyl group.

28. The composition according to Claim 26, wherein the at least one organofunctional group is chosen from:

- a) substituted and unsubstituted amine groups,
- b) (per)fluoro groups,
- c) thiol groups,
- d) carboxylate groups,
- e) hydroxylated groups,
- f) alkoxyated groups,
- g) acyloxyalkyl groups,
- h) amphoteric groups,
- i) bisulfite groups,
- j) hydroxyacylamino groups,
- k) carboxylic acid groups,
- l) sulfonic groups, and
- m) sulfate and thiosulfate groups.

29. The composition according to Claim 24, wherein the silicones are chosen from linear polydimethylsiloxanes comprising trimethylsilyl end groups, linear polydimethylsiloxanes comprising hydroxydimethylsilyl end groups, silicone resins, amodimethicones and trimethylsilylamodimethicones.

30. The composition according to Claim 24, wherein the synthetic oils are chosen from polyolefins chosen from hydrogenated polybutene, nonhydrogenated polybutene, hydrogenated polydecene, and nonhydrogenated polydecene.

31. The composition according to Claim 24, wherein the animal and plant oils are chosen from sunflower oil, maize oil, soybean oil, avocado oil, jojoba oil, marrow oil,

grapeseed oil, sesame oil, hazelnut oil, fish oils, glyceryl tricaprocarylate, plant and animal oils of formula  $R_9COOR_{10}$  wherein  $R_9$  is chosen from higher fatty acid residues comprising from 7 to 29 carbon atoms and  $R_{10}$  is chosen from linear and branched hydrocarbon-based chains comprising from 3 to 30 carbon atoms.

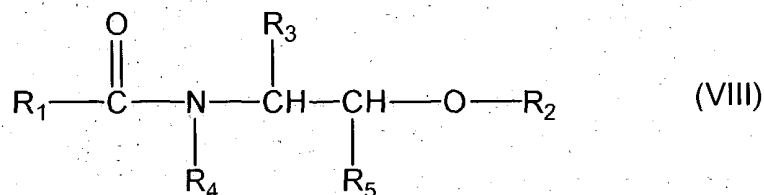
32. The composition according to Claim 31, wherein the plant and animal oils of formula  $R_9COOR_{10}$  are chosen from alkyl and alkenyl, natural and synthetic essential oils.

33. The composition according to Claim 32, wherein the plant and animal oils of formula  $R_9COOR_{10}$  are chosen from eucalyptus oil, lavandin oil, lavender oil, vetiver oil, litsea cubeba oil, lemon oil, sandalwood oil, rosemary oil, camomile oil, savory oil, nutmeg oil, cinnamon oil, hyssop oil, caraway oil, orange oil, geraniol oil, cade oil and bergamot oil.

34. The composition according to Claim 24, wherein the plant waxes are chosen from carnauba wax, candelilla wax, ozokerite, olive wax, rice wax, hydrogenated jojoba wax, the absolute waxes of flowers, and marine waxes.

35. The composition according to Claim 34, wherein the absolute wax of flowers is the essential wax of blackcurrant flower.

36. The composition according to Claim 24, wherein the ceramides and pseudoceramides correspond to formula (VIII):



wherein:

-  $R_1$  is chosen from:

- either: saturated and unsaturated, linear and branched  $C_1$ - $C_{50}$  hydrocarbon-based radicals, wherein the  $C_1$ - $C_{50}$  hydrocarbon-based radicals may be substituted with at least one hydroxyl group which may be esterified with an acid  $R_7COOH$ , wherein  $R_7$  is chosen from saturated and unsaturated, linear and branched,  $C_1$ - $C_{35}$  hydrocarbon-based radicals optionally hydroxylated with at least one hydroxyl group, wherein the at least one hydroxyl group of the radical  $R_7$  may be esterified with saturated and unsaturated, linear and branched, optionally mono- and polyhydroxylated  $C_1$ - $C_{35}$  fatty acids;

- or a radical  $R''-(NR-CO)-R'$ , wherein  $R$  is chosen from a hydrogen atom and mono- and polyhydroxylated  $C_1$ - $C_{20}$  hydrocarbon-based radicals,  $R'$  and  $R''$ , which may be identical or different, are each chosen from hydrocarbon-based radicals, the sum of the carbon atoms ranging from 9 to 30, and  $R'$  is a divalent radical;

- or a radical  $R_8-O-CO-(CH_2)_p$ , wherein  $R_8$  is chosen from  $C_1$ - $C_{20}$  hydrocarbon-based radicals, and  $p$  is an integer ranging from 1 to 12;

-  $R_2$  is chosen from a hydrogen atom, a saccharide radical, sulfate and phosphate residues, a phosphorylethylamine radical and a phosphorylethylammonium radical;

-  $R_3$  is chosen from a hydrogen atom and saturated and unsaturated  $C_1$ - $C_{33}$  hydrocarbon-based radicals optionally hydroxylated with at least one hydroxyl group, wherein the at least one hydroxyl group may be esterified with an inorganic acid or an acid  $R_7COOH$ , wherein  $R_7$  has the same meanings as above, wherein the at least one hydroxyl may be etherified with at least one radical chosen from (glycosyl) $_n$ , (galactosyl) $_m$ , sulfogalactosyl, phosphorylethylamine and phosphorylethylammonium radicals, and wherein  $R_3$  may also be substituted with at least one radical chosen from  $C_1$ - $C_{14}$  alkyl radicals;

-  $R_4$  is chosen from a hydrogen atom, methyl and ethyl radicals, saturated and unsaturated, linear and branched, optionally hydroxylated  $C_3$ - $C_{50}$  hydrocarbon-based radicals and a

radical  $-\text{CH}_2\text{-CHOH-CH}_2\text{-O-R}_6$  wherein  $\text{R}_6$  is chosen from  $\text{C}_{10}\text{-C}_{26}$  hydrocarbon-based radicals and radical  $\text{R}_8\text{-O-CO-(CH}_2)_p$ , wherein  $\text{R}_8$  is chosen from  $\text{C}_1\text{-C}_{20}$  hydrocarbon-based radicals, and  $p$  is an integer ranging from 1 to 12;

-  $\text{R}_5$  is chosen from a hydrogen atom and saturated and unsaturated, linear and branched,  $\text{C}_1\text{-C}_{30}$  hydrocarbon-based radicals optionally hydroxylated with at least one hydroxyl group, wherein the at least one hydroxyl may be etherified with at least one radical chosen from (glycosyl) $_n$ , (galactosyl) $_m$ , sulfogalactosyl, phosphorylethylamine and phosphorylethylammonium radicals, with the proviso that when  $\text{R}_3$  and  $\text{R}_5$  are both a hydrogen atom or when  $\text{R}_3$  is a hydrogen atom and  $\text{R}_5$  is a methyl radical, then  $\text{R}_4$  is not a hydrogen atom, a methyl radical, or an ethyl radical.

37. The composition according to Claim 36, wherein  $\text{R}_1$  is chosen from  $\text{C}_5\text{-C}_{50}$  hydrocarbon-based radicals.

38. The composition according to Claim 36, wherein  $\text{R}$  is chosen from monohydroxylated  $\text{C}_1\text{-C}_{20}$  hydrocarbon-based radicals.

39. The composition according to Claim 36, wherein the saccharide radical of  $\text{R}_2$  is chosen from (glycosyl) $_n$ , (galactosyl) $_m$  and sulfogalactosyl radicals, wherein  $n$  is an integer ranging from 1 to 4 and  $m$  is an integer ranging from 1 to 8.

40. The composition according to Claim 36, wherein  $\text{R}_3$  is chosen from  $\text{C}_{15}\text{-C}_{26}$   $\alpha$ -hydroxyalkyl radicals, wherein the hydroxyl group is optionally esterified with at least one acid chosen from  $\text{C}_{16}\text{-C}_{30}$   $\alpha$ -hydroxy acids.

41. The composition according to Claim 24, wherein the ceramides are chosen from at least one of:

- 2-N-linoleoylamino-octadecane-1,3-diol,
- 2-N-oleoylamino-octadecane-1,3-diol,



- 2-N-palmitoylamino-octadecane-1,3-diol,
- 2-N-stearoylamino-octadecane-1,3-diol,
- 2-N-behenoylamino-octadecane-1,3-diol,
- 2-N-[2-hydroxypalmitoyl]amino-octadecane-1,3-diol,
- 2-N-stearoylamino-octadecane-1,3,4-triol,
- 2-N-palmitoylamino-hexadecane-1,3-diol,
- bis(N-hydroxyethyl-N-cetyl)malonamide,
- N-(2-hydroxyethyl)-N-(3-cetyloxy-2-hydroxypropyl)cetylamine, and
- N-docosanoyl-N-methyl-D-glucamine.

42. The composition according to Claim 23, wherein the at least one conditioner is present in an amount ranging from 0.0001% to 20% by weight, relative to the total weight of the composition.

43. The composition according to Claim 42, wherein the at least one conditioner is present in an amount ranging from 0.001% to 10% by weight, relative to the total weight of the composition.

44. The composition according to Claim 43, wherein the at least one conditioner is present in an amount ranging from 0.005% to 5% by weight, relative to the total weight of the composition.

45. The composition according to Claim 44, wherein the at least one conditioner is present in an amount ranging from 0.005% to 3% by weight, relative to the total weight of the composition.

46. The composition according to Claim 45, wherein the at least one conditioner is present in an amount ranging from 0.01% to 3% by weight, relative to the total weight of the composition.

47. The composition according to Claim 1, further comprising at least one cationic polymer.

48. The composition according to Claim 47, wherein the at least one cationic polymer is chosen from quaternary cellulose ether derivatives, cationic cyclopolymers, cationic polysaccharides and quaternary polymers of vinylpyrrolidone and of vinylimidazole.

49. The composition according to Claim 48, wherein the cationic cyclopolymers are chosen from diallyldimethylammonium chloride homopolymers and copolymers of diallyldimethylammonium chloride and of acrylamide.

50. The composition according to Claim 48, wherein the quaternary cellulose ether derivatives are chosen from hydroxyethylcelluloses that have reacted with an epoxide substituted with at least one trimethylammonium group.

51. The composition according to Claim 48, wherein the cationic polysaccharides are chosen from guar gums modified with a 2,3-epoxypropyltrimethylammonium salt.

52. The composition according to Claim 47, wherein the at least one cationic polymer is present in an amount ranging from 0.001% to 10% by weight, relative to the total weight of the composition.

53. The composition according to Claim 52, wherein the at least one cationic polymer is present in an amount ranging from 0.005% to 5% by weight, relative to the total weight of the composition.

54. The composition according to Claim 53, wherein the at least one cationic polymer is present in an amount ranging from 0.01% to 3% by weight, relative to the total weight of the composition.

55. The composition according to Claim 1, further comprising at least one additive chosen from foam synergists, silicone and nonsilicone sunscreens, anionic polymers,

nonionic polymers, and amphoteric polymers, proteins, protein hydrolyzates, hydroxy acids, vitamins, and provitamins.

56. The composition according to Claim 55, wherein the foam synergists are chosen from C<sub>10</sub>-C<sub>18</sub> 1,2-alkanediols and fatty alkanolamides derived from monoethanolamine and from diethanolamine.

57. The composition according to Claim 55, wherein the provitamins are panthenol.

58. The composition according to Claim 1, further comprising at least one additive chosen from vitamins, provitamins and hydroxy acids.

59. The composition according to Claim 1, wherein said at least one anionic surfactant and said at least one other surfactant are present in the composition in a combined amount greater than or equal to 4% by weight, relative to the total weight of the composition.

60. The composition according to Claim 59, wherein said at least one anionic surfactant and said at least one other surfactant are present in the composition in a combined amount ranging from 5% to 60% by weight, relative to the total weight of the composition.

61. The composition according to Claim 60, wherein said at least one anionic surfactant and said at least one other surfactant are present in the composition in a combined amount ranging from 5% to 30% by weight, relative to the total weight of the composition.

62. The composition according to Claim 61, wherein said at least one anionic surfactant and said at least one other surfactant are present in the composition in a

combined amount ranging from 5% to 20% by weight, relative to the total weight of the composition.

63. The composition according to Claim 1, wherein the composition is provided in a form chosen from shampoos, compositions for permanent-waving the hair, compositions for relaxing the hair, compositions for dyeing the hair, compositions for bleaching the hair, rinse-out compositions to be applied between the two steps of a permanent-waving or relaxing operation, and washing compositions for the skin.

64. A method for shampooing a keratin material comprising applying to the keratin material a composition comprising, in a cosmetically acceptable medium,

at least one anionic surfactant,

at least one other surfactant chosen from amphoteric, cationic and nonionic surfactants, and

at least one polysaccharide chosen from starch hydrolyzates with a dextrose equivalent (DE) of less than 20 and from nonionic and anionic fructans,

wherein the weight ratio of the at least one anionic surfactant to the at least one other surfactant is greater than or equal to 1:1.

65. A method for washing and/or conditioning keratin fibers comprising:

applying to said wet fibers an effective amount of a composition comprising, in a cosmetically acceptable medium,

at least one anionic surfactant,

at least one other surfactant chosen from amphoteric, cationic and nonionic surfactants, and

at least one polysaccharide chosen from starch hydrolyzates with a dextrose equivalent (DE) of less than 20 and from nonionic and anionic fructans,

wherein the weight ratio of the at least one anionic surfactant to the at least one other surfactant is greater than or equal to 1:1 and

- rinsing the keratin fibers with water after an optional action time.

66. The composition according to Claim 65, wherein the keratin fibers are hair.